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### 1. SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

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### 2. SB152-002: Cortical Modem Systems Integration and Packaging

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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### 3. SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz - 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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### 4. SB152-004: Many-Core Acceleration of Common Graph Programming Frameworks

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cyber-security; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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**5. [SB152-005: Ovenized Inertial Micro Electro Mechanical Systems](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a critical DoD need for capabilities that focus on temperature stabilization of MEMS inertial sensors to improve bias and scale factor stability. Military operations rely on satellite-based Global Positioning System (GPS) for precision Positioning, Navigation & Timing (PNT) information. However, GPS is an extremely small signal, which may be degraded due to signal interference or obstruct ...

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**6. [SB152-006: Compact, Configurable, Real-Time Infrared Hyperspectral Imaging System](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a compelling DoD need to create a low cost, compact and reconfigurable infrared imaging spectrometer that can operate in real time, and in a variety of backgrounds and ambient conditions. Hyperspectral imaging (HSI) systems have been fielded for the detection of hazardous chemical and explosives threat materials, tag detection, friend vs. foe detection (IFF) and other defense critical sen ...

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**7. [SB152-008: Low Cost Expendable Launch Technology](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

There is a compelling DoD need to leverage emerging commercial entrepreneurial and defense technologies enabling lightweight, high-specific-energy liquid-rocket technology. Many established aerospace and emerging entrepreneurial companies are developing new rocket stage technologies that promise to reduce the cost of access to space. The goal of this topic is to leverage these investments to enabl ...

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**8. [8.1: Resilient Coastal Communities and Economies](#)**

Release Date: 11-13-2013 Open Date: 11-13-2013 Due Date: 01-29-2014 Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Developing and Improving Commercial Marine Algal Culture in the United States Automated Vertical Reference Rapid Identification of Species and Origin in Processed Seafood 8.1 DOC DOC/NOAA SBIR NOAA-2014-1 ...

SBIR Department of Commerce National Oceanic and Atmospheric Administration

**9. [8.1.1F: Developing and Improving Commercial Marine Algal Culture in the](#)**

## [United States](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: We stand at a critical juncture in the development of marine aquaculture in the United States. The U.S. is a major consumer of aquaculture products – we import 91% of our seafood and half of that is from aquaculture – yet we are a minor producer. Algal products have a huge market worldwide, use energy from the sun, and can uptake excess nutrients, improving local water quality ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

### **10.** [8.1.2N: Automated Vertical Reference](#)

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: We are aware of research grade products yielding millimeter per year motions for dam deformation and continental drift. Others are able to generate dynamic vertical positioning on buoys to within 3-5 cm. Between these two ranges we believe there exist the capability to develop and operationally observe vertical stability (lack of change) at a sub-centimeter resolution. A small, easily-d ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

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